Dirty Boy User Manual

WARNING: Please read ALL the safety and other instructions contained inside this User Manual **BEFORE** your first use of the product. Failure to do so may result in serious personal injury or death and/or permanent damage to the product. Keep these instructions for future reference.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric to persons.

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operation maintenance (servicing) instruction in literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE APPLIANCE TO RAIN OR MOISTURE.

NOTICE: Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Dirty Boy User Manual

Thank you for your purchase of the Dirty Boy, handcrafted by Mojave Ampworks LLC. Your new Dirty Boy amp comes with the following:

1. Power Cord
2. Owners Manual
3. Registration information
4. Boost on/off Pedal *(Optional)*
5. Boost Pedal Cable *(Optional)*

Overview: We are very pleased to offer the Dirty Boy for your musical enjoyment. The Dirty Boy amp is truly a one of kind amplifier and likely very different from most any amp you have ever played. We expect you will find this User Manual useful to get you started. Please follow our start-up recommendations (see *Section 1: Powering Up the the Dirty Boy*) to help preserve and prolong the life of your tubes. Proper operation of the Dirty Boy will give you many years of trouble free service, and when used correctly, you will find the Dirty Boy to be one of the most reliable amps available. Please carefully review the entire User Manual before attempting to use this amp.

The Dirty Boy is 100% Made in America with 100% American parts save the tubes. We have endeavored to provide a true piece of great American craftsmanship and all the products from the transformers, to the chassis to the tube sockets themselves are American made.

Section 1: Powering Up the Dirty Boy.

1. **Tube Installation.** To protect against damage during shipping, the Dirty Boy's ten (10) tubes are shipped uninstalled and in their original boxes carefully packed within the head's internal cavity. **NOTE:** DO NOT DISCARD YOUR TUBE BOXES or, alternatively, write down and save the information contained thereupon for future reference. You must install these tubes in the order indicated in this User Manual to ensure proper operation.

   Step 1: Remove the four (4) screws holding the head's rear panel and grill in place and carefully set them aside.

   Step 2: Carefully remove the tube boxes, the metal tube caps and all the packing material from inside the head and carefully set them aside. Your tube boxes will be grouped in (3) three bunches consisting of two (2) 5-U4G rectifier tubes; four (4) EL34 power tubes; and (3) three 12AX7 and one (1) 12AT7WC pre-amp tubes.

   Step 3: Identify the 12AX7 / 12AT7WC pre-amp tube bunch and locate the reference number on the top of each individual tube box identifying the tube's installation order (i.e., "V1" through "V4"). Remove the 12AX7 tube in the box marked "V1" and install it in the first tube socket on the right side of the amp head as viewed from the rear of the amp. To install the tube, carefully line up the pins and tab on the tube with the corresponding slot and pin holes in the amp's tube socket and with firm, even pressure, push the tube into the socket until it is completely seated. Repeat this process with each of the remaining pre-amp tubes making sure that each

successive pre-amp tube is installed in the corresponding socket moving from right to left (i.e., V2 in the 2nd socket, V3 in the 3rd socket, etc.)

Step 4: Once all the pre-amp tubes are installed, install a metal cap over each of the preamp tubes. To install a cap, carefully line-up the tab on the tube socket with the corresponding gap on the metal cap. Once aligned, carefully push the metal cap over the tube, depressing the spring inside the cap. Once the cap is seated, twist the cap slightly so the tab and the gap are no longer aligned and the cap remains seated.

Step 5: Identify the EL34 tube bunch, and locate the reference number on the top of each individual tube box identifying the tube's installation order (i.e., "1" through "4"). Remove the EL34 tube in the box marked "#1" and install it in the fifth (5th) tube socket (which is the first open socket after the pre-amp tubes). To install the tube, carefully line up the pins and tab on the tube with the corresponding slot and pin holes in the amp's tube socket and with firm, even pressure, push the tube into the socket until it is completely seated. Repeat this process with each of the remaining EL34 tubes making sure that each successive tube is installed in the corresponding socket moving from right to left (i.e., #1 in the 5th socket, #2 in the 6th socket, etc.)

Step 6: Identify the remaining 5-U4G rectifier tubes and install them in the remaining two sockets in either order using the same process noted above.

Step 7: Re-install your amp's rear panel and grill.

2. **Selecting the Correct Impedance For Your Speaker Cabinet:** Using a _____ cable only, plug one end of the cable into the appropriate impedance input (located in the rear of your amp) to match your speaker cabinet's impedance. It is critical that you select the correct impedance option for your particular speaker cabinet. The Dirty Boy should be connected to one of the following selections:
    a. If you are using a single speaker cabinet at 8 ohms, set your Dirty Boy impedance to 8 ohms.
    b. If two speaker cabinets are being used, both 8 ohm cabinets, your Dirty Boy should be set to 4 ohms.
    c. If you are using a 4 ohm cabinet, set your Dirty Boy speaker impedance selector to 4 ohms.

WARNING: You cannot use two 4 ohm cabinets with the Dirty Boy. That will result in a total load of only 2 ohms, which can damage the amplifier. Additionally, you cannot use a single 16 ohm cabinet. However, if you have two (2) 16 ohm cabinets, you may use them both together plugged into the Dirty Boy amp as the end impedance will be 8 ohms. Please select 8 ohms on the Dirty Boy for this application. Also note that you cannot mix impedances such as 4 ohm and 8 ohm together. The cabinets must be equally matched, for example, two 16 ohm cabinets, two 8 ohm cabinets, etc.

3. **Before You Turn ON the Power:** Make sure your power and standby controls are both in the up position. Plug your power cord into the Dirty Boy. ***Set your Variac to "0". Set the Bias control to "COLD."***. Set your volume on the amplifier to 0. Be sure your guitars volume control is turned up.

4. **Turning the Dirty Boy ON:** Once the Variac and the Bias controls are set to “0” and COLD, move the power switch on the front of your Dirty Boy to the “ON” position. Allow at least sixty (60) seconds for warm up, which is the **minimum** recommended. Note that longer warm up allows the tubes to stabilize. If you have the luxury of allowing your amp to warm up for 5 minutes, this would be optimal. Once the Dirty Boy has sufficiently warmed up as indicated, move the “STANDBY” switch to the OFF position (down). The Dirty boy will become operational.

5. **Initial Tone and Feel Adjustments:** We suggest turning the boost OFF for your first power up test. Once the amp is operational, we suggest turning up the guitar volume while SLOWLY rotating the Variac to the appropriate power level test your sound.. You can then adjust your Bias to the desired tone and feel and set your volume. Note that setting the Variac to 100% and the Bias between 70-75% is a normal operational setting. Also note that when the bias control is set to “COLD” the Dirty Boy power amp section is effectively cut-off at low power levels. Adjust the bias at low power levels until desired sound quality is obtained. At higher power levels DO NOT run the amp at full hot unless your playing the amp clean. See the Bias control section below for further explanation.

Section 2: Operating the Dirty Boy.

1. **Understanding the Variac.** At the heart of the Dirty Boy amp is the Variac. The Variac is an adjustable power transformer used to vary the power on the EL34 power tube section of the Dirty Boy amp. It’s purpose is to allow a combination of power level changes and sound texture results from the resulting power level differences. The power supply rectifier tubes (5U4) are controlled by the Variac. In turn, the Variac should not be dialed rapidly back and forth. Doing so may cause damage to the rectifier tubes and or the EL34 power tubes. We **STRONGLY** recommend you use common sense and treat the Variac with high a degree of carefulness. If you rotate the Variac slowly, you will get better results form the amp and safer operations on your power supply tubes as well as audio power output tubes. Additionally, we suggest at anytime when you have powered your amp down, that you also set your Variac to 0 volts. This allows the amp to be powered back up from 0 to your previous setting.

2. **Understanding the Division Lines.** We will describe the Dirty Boy Control settings in percentages. Looking at the Dirty Boy control panel, you will see the smaller division lines. These smaller division lines are equal to 5%. There are also five longer thick lines on the dial. They are referenced at 0%, 25%, 50%, 75% and 100%. The larger divisions are spread equally along the control panel and are separated by the smaller 5% division lines. Basically, you have a control dial that reads from 0-100%. The Variac is also 0-100% but its divisions are set at 2% increments. 100% Variac equates to 120VAC power to the rectifier tubes. 50% Variac would equate to 60 VAC power fed to the rectifier tubes. Therefore, the Variac does not equate to power or voltage levels in the direct sense. If you set the Variac at 75%, the actual voltage is not 75 volts, but rather 75% of 120 VAC, which is actually 90 VAC. This

should be kept in mind as the Variac does not provide power to any part of the amplifier other then the power section of the amplifier. The heaters for all the tubes, including the power tubes, are all provided on an auxiliary basis. This means you do not have to worry about under powered heater voltage on your tubes in the Dirty Boy. The heater voltage on the 5U4 power tubes is also provided separately from the Variac and allows the rectifiers to operate at the correct temperature.

3. **Understanding How the Variac, Bias and Feedback Affect Your Sound.** As noted above, for safety of the power tubes, you would be better served using a slow ramp up rather then an instant application of high voltage to the power tubes. The reason for ramping up the power tubes rather then switching the amp on and off with power applied to its high voltage section is that the bias is allowed time to catch up. The Bias on the Dirty Boy is developed on the high voltage section. The power tube rectifiers are considered a slow power supply. This creates a unique “behavior” from the power supply. This behavior on the part of the power supply is also a contributing feature to the Dirty Boy’s over all character and sound. The power amp section will distort more when the power supply is running at lowered settings on the Variac. Anything under 50% Variac power will exhibit a slower recharge time of the power supply capacitors. The slower recharging of the power supply will create an effect that sound like the amp is “catching its breath” so to speak. This is normal at drastically low power settings. The replenishing of the power supply capacitors will be quicker when the Variac is set higher or over 50%. The “breathing” effect is also partly influenced by both the Feedback and Bias settings. You can experiment with this by adjust the Variac, Feedback, guitar volume and Bias controls. The overall demands on the amp when used at lower power levels will yield some very interesting and unique results; the possibilities are very diverse.

3. **Understanding the Dirty Boy’s Power Tube Based Distortion.** The Dirty Boy employs power tube based distortion. This statement holds true for many vintage guitar amplifiers that are non-master volume. Most non master volume amplifiers need to be turned up to full power in order to reach the threshold of the desired overload sound or power tube distortion. The power tubes are distorting because the power amps are exhausting the power supply of its ability to provide “gas” or power, thus you get a distorted signal in the power tube. The only problem with this scenario is the power section generates a tremendous amount of power and, therefore, a lot of volume. The Dirty Boy is no exception since it was designed to be used as a live amp or for recording with the amp powered up past the 50% Variac level for optimal tone. The exception that the Dirty Boy can be adjusted to a lower power levels by way of the adjustable Variac should not be confused with the concept that the sound will be identical at the lower settings. There are a number of factors at play when the Variac is adjusted. The first is the Bias; as the Variac is decreased so will the bias on the power tubes or the Bias will become “cold”. This means the tubes are not going to act on the input signal as easily and it may actually get cold enough to “cut off” the power tubes. This is not a problem and can be very desirable. You will have to experiment with this feature. If the Bias is set to fully COLD while the Variac is at a power setting of over 50%, you will hear the amp go completely quiet. This is the fully “cut off” state and your guitar signal will need to be of sufficient levels to over come

the “cut off” state of the power tubes. You are going to hear a “gating” effect. I would invite you to experiment with this feature. If you set the guitar volume and boost to the levels necessary, you will literally blow through this “cut off” state and get a full blown power tube distortion. There is a fast response to this “cut off” state that no other amp can provide you. The reason is simple; your going to hear sound so long as your making strong notes. When you stop the amp will instantly shut off. This shutting off will create a fast tight sound to your playing. The lead solo that might be laden with noise between notes will now be dead quiet between notes. Try it out. It is like nothing you have ever played before.

When the amp is set to a high volume, you might also want to set your Bias colder until it either cuts off the sound to prevent feedback or background noise or simply to get the desired effect noted in the above paragraph.

When using the Dirty Boy at higher power levels, 50% and over on the Variac, your going to be able to get a cleaner sound. Setting the Variac anywhere off 100% power will effectively lower your clean headroom that the amp can make. To offset your reduced power levels when using the Variac at or under 100%, you can turn your Bias control towards HOT. This will clean up the amp’s response. You can also increase the amp’s Feedback thereby making the amp less sensitive and less likely to distort. In fact, you can achieve an extremely clean tone beyond anything most amps will provide if you use the Bias in the hotter region, Variac power level close to or at 100% and your Feedback at maximum. Also, keep in mind your guitar volume would need to be set to a lower level to further affect the clarity of the tone.

Worth restating, by setting your Bias at 70-75% and the Variac to 100% you will achieve a normal bias setting that would be customary of any 100 watt amp. Said another way, with the Bias set at 70-75% and the Variac at 100%, you will achieve an idle bias of approximately 17.5 watts per tube or 70% of the tubes power rating, which would be normal for a typical 100 watt amp.

For more details on the operation of the Dirty Boy go to: http://mojaveampworks.com/amplifiers/dirty-boy/

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SECTION 3: Dirty Boy Amp's Features and Functions.

1. **Variac Dial Control.** This controls the power level of the overall amp. When the Variac control is set to 100%, the power amp section of the amp is able to produce 100 watts of power. Setting the Variac at lower then 100% will yield lower power levels at the power amp section. See *Understanding the Variac* above to learn more about Variac functions.

2. **Guitar Input.** This is the single input for your instrument. This input is intended for standard instrument input signals.

3. **Boost Gain.** The boost gain is functional only when in the boost mode. The gain control effectively creates a stronger drive signal feeding from one stage into another. This will cause asymmetrical distortion to occur if turned up over half way. This control is dependent on the guitar volume control as well and will yield greater distortion if the guitar volume control is turn up over half way.

4. **Deep Switch**. The Deep Switch only works when in the boost mode. If the Switch is turned on, there will be greater bass response from the boost channel. This may be very useful for single coil guitars. If you are using a humbucker pickup and would like to get a thicker sound, reduce the "Bass" tone control so as not to overload the bass frequencies with the deep switch engaged. When the Deep Switch is turned off, there is a stronger emphasis on the upper mids and treble frequencies. This is great for cutting through on leads.

5. **Boost Volume.** This controls the over all boost level and volume as the control implies. There is a larger boost signal present at the phase driver. this control acts like a master volume when in the boost mode. You can turn up your guitar volume and boost gain to obtain an overdrive tone while keeping the volume low by reducing the boost volume control for lower over all output. This works well if coupled with the Variac set to a lower power level as well. A very high gain at low volume can be obtained. In standard operation mode, you would use the boost gain to set the over all level of the boost as needed.

6. **Boost Switch.** This will turn the boost on or off. Off is normal and the boost controls are inoperative.

7. **Foot Switch.** The foot switch allows the user to turn on and off the boost circuit by way of foot switch. The boost foot switch requires a three conductor cable using a 1/4 phone jack. The phone jack needs to have ring, tip and sleeve contacts. Two conductor switches will not work.

8. **Guitar Volume.** This is the main volume for your instrument. The volume controls the over all gain of the amp. With the Variac set to low power your volume control will create a larger drive signal and thereby drive the amp into distortion. If the Variac is set to a greater power level or to full power, the volume can be set to a lower setting for clean sounds.

9. **Treble.** Use this control to add or subtract treble frequencies to the sound.

10. **Midrange.** Use this control to add or subtract midrange frequencies to the sound.

11. **Bass.** Use this to add or subtract bass frequencies to the sound.

12. **Presence.** This control sets the extent of the treble control effectiveness and will brighten the sound at the top of the spectrum.
13. **Feedback.** This controls the amplifier's sensitivity to the signal delivered to the power amp. If there is a lot of Feedback (i.e., max) your amp will play cleaner and less aggressive. Less Feedback (i.e., min) will create a stronger gain with more volume and greater aggressiveness. The Feedback control can help you set the level of sensitivity for your style

and music as well as instrument signal. When the feedback control is set to minimum, the amp will behave with a stronger degree of punch and brightness. When the Feedback control is set to maximum, the amp will be dampened down to allow a better clarity and less aggressive tone. The Feedback control can help shape your sound and feel of your sound.

14. **Bias.** The Bias control can make drastic changes to your amplifier's sound. This control is able to make your tubes run "hotter" or "colder." By allowing the tubes to run colder, the Bias is effectively cutting-off the tube signal. A strong signal will be needed to break over the cut-off level on the power tubes. This can act like a noise gate and create a sharp cut-off when notes are transitioned form "on" to "off." By setting the Bias to HOT the tubes are on and will produce sound with the tiniest signal. Using this control can make enormous differences in the attack and decay of your amp's response.

15. **Indicator Lamp.** The Indicator Lamp only lights when there is AC power present at the input power receptacle. The Indicator Lamp can only light when the power switch is turned "on." If the indicator lamp is not lit, either the power switch is turned "off" or there is no power at the AC receptacle.

16. **Standby Switch.** When the Standby Switch is switched into the down position it will activate the high voltage on the plates of the tubes which energize the tubes and amplifier. When Standby is placed in the "up" position, the high voltage is disengaged and the amp in de-energized.

17. **Power.** Power switches the AC power "on" and "off" for the amplifier.

18. **AC Input.** Plug your AC power cord in this socket. Be sure your power cord is securely pushed in and firm for good contact. If the power cord is loosely plugged in, you may experience intermittent power.

19. **Mains Fuse.** This is the fuse for the power, which is supplied to the entire amplifier. Use correct fuse if replacement is needed. Contact a qualified service person before changing any fuses.

20. **20 Variac Line Fuse.** This fuse is specifically for the Variac transformer. If this fuse needs replacement, use exact replacements. Consult a qualified service person before changing any fuse.

21. **High Tension Fuse.** This fuse is for the high voltage applied to the power tubes. A failure of one or more of the power tubes will cause this fuse to blow. Refer to a qualified service person for further attention.

22. **Pre Amp Fuse.** This fuse is specifically for the high voltage applied to the preamp tubes. If there is a need to replace this fuse, the pre amp tubes need to be checked and or replaced. Refer to a qualified service technician for further assistance.

23. **Speaker Output Jacks.** Plug your speaker cabinet into one or both of these output jacks as needed. A single 8 ohm cabinet can be plugged into either of the two jacks but only one jack need be used. If you are running two 16 ohm cabinets, you may connect both cabinets, one cabinet to each jack for a total of 8 ohms output impedance. Be sure your speaker impedance switch is selected to 8 ohms. If you have a single 4 ohm cabinet, you may use either one of the two speaker output jacks for the 4 ohm cabinet. Be sure you have your speaker impedance output switch selected to 4 ohms if using a 4 ohm cabinet. If two 8 ohm cabinets are to be used, plug each cabinet into one speaker output jack. The total output impedance will be 4 ohms. Be sure to select 4 ohms with your speaker impedance selector switch. **NOTE: If using one speaker cabinet, either 4 or 8 ohm, use only one speaker output**

connection at one time. If using a set of cabinets, the two cabinets will plug to the output jacks but will equal only 1/2 of the impedance of either one cab. For example, two 16 ohm cabinets will equal 8 ohms if plugged into both speaker output jacks. This is known as parallel.

24. Speaker Impedance Selector. Use this switch to select the correct speaker impedance of the cabinet to which you are connecting. Use only the correct speaker impedance when running a cabinet on the Dirty Boy amplifier.

25.Power Amp Input. This input allows you to bypass the preamp portion of the Dirty Boy and harness the power amp section by itself. This would allow the user to use a preamp of their liking and gain the Variac feature, which can add a unique quality and smoothness to your sound. If a hum is present, a ground switch on the preamp may help reduce the hum. Check to be sure your preamp and Dirty Boy are grounded to the same power outlet.

26.Boost Foot Switch *(optional).* The Dirty Boy optional foot switch allows you to switch the boost circuit in and out via the remote foot switch. The Boost Foot Switch requires a three conductor cable with tip, ring and sleeve contacts using a 1/4" phone jack. The Dirty Boy on/off Boost Foot Switch has an LED indicator to let you know your Boost is "on" or "off." When the LED is lit, the Boost is on. If the LED is off, the Boost is not engaged and the amp will be in the normal mode. When the Boost Foot Switch is plugged in, the toggle control on the Dirty Boy control panel is disengaged. The Boost Foot Switch overrides the control panel toggle regardless of settings. Once you have unplugged the Boost Foot Switch from the amplifier your toggle switch will then be active.

SECTION 4. Using Guitars and Pedals with the Dirty Boy.

The Dirty Boy amplifier is a very versatile amplifier. If your guitar has a high output signal, you will find the gain to much hotter when the volume is turned up. You may want to reduce the feedback to lower the gain response and help you keep the gain from getting to heavy to quick. You may also find your boost settings can be kept lower if your guitars pickup signal are high output.

If your guitar has a low to medium pickup output, you will find the Dirty Boy very easy to work with as the amp will have some latitude for setting up your sound. Lower to medium guitar pickups are recommended for best results, but are not necessary. You may find your guitars pickups are too low in some cases. If your signal needs some additional zest, try setting the feedback to minimum. This will make the amp more sensitive to the signal input. You may also use more boost level and drive for your desired sound. A Deep Switch is on the Dirty Boy for those who are fond of single coil pickups and would like a thicker sound. You may also find the Deep Switch favorable for your humbucker guitar pickups. If you are using the Deep Switch, you must have the Boost circuit engaged as the Deep Switch is only applicable for the Boost mode.

Using pedals with the Dirty Boy is no problem. You can use your favorite pedals with the Dirty Boy amplifier in a couple of ways. Since the Dirty Boy offers a variable power output section you can set the power levels higher for a cleaner sound. Once you have adjusted your amps tone to your liking you can test your pedals using the clean tone from the Dirty Boy's preamp and power amp sections. You may also experiment with your pedals using the Dirty Boy in a Drive Mode. When using an efx pedal, you should keep in mind the level output will change the overall sensitivity of the amp The Feedback control can help adjust your amps response for your pedals given signal levels.

SECTION 5. Changing Tubes and Maintenance.

Many users like to experiment by changing their tubes with different brands to hear alternative tone qualities. It is recommended that any tube changes be done only if necessary and by a qualified or authorized facility. The Dirty Boy has a user adjustable Bias control which is set at the factory to provide a window of variable bias for the tubes, which were installed at the time the amp is built and equipped with tubes. You can change the preamp tubes without any need for assistance. We would recommend you consult us first before changing the amplifiers power tubes. If there is a need to change or replace your power tubes, please contact us first. PLEASE CONTACT US AT support@mojaveampworks.com. We do not accept telephone calls for technical support unless the products are under the basic warranty which comes with the amp or extended 5 year warranty, which is optional at the time of purchase. Please refer to our FAQ page for information regarding the servicing of the Dirty Boy amp. **SERVICE SHOULD ONLY BE PERFORMED BY A QUALIFIED ELECTRONICS TECHNICIAN. DO NOT ATTEMPT TO SERVICE THSI PRODUCT ON YOUR OWN. DO NOT OPEN THE DIRTY BOY AMPLIFIER AS IT HAS HAZARDOUS AND DANGEROUS HIGH VOLTAGE INSIDE.**

SECTION 6. Warranty and Registration Information.

All Dirty Boy Amplifiers come with a one (1) year parts, 90 day labor warranty against manufacture defect. Warranties do not cover abuse or misuse by users, nor do warranties cover accidental damages. Extended warranties cover parts and labor for five (5) years but are subject to examination by the manufacture as to the cause or need for service. If it is determined that the service is not a warranty issue, an estimate for service and repairs will be given before work is done. Tubes are excluded form parts warranty and are only good for 30 days after date of purchase.

All repairs must be performed by the manufacture only. Mojave Ampworks does not authorize any service work nor will Mojave Ampworks offer reimbursement for service work performed by outside facilities. Removal of the amplifier from it's protective head cabinet will constitute tampering and void all warranties. If evidence of tampering is present, all warranties are void. Return authorization is required for repair or service if needed.
Service questions may be submitted by email. An appointment for Telephone assistance can be made by email. We offer technical assistance to the original owner of the amplifier only. Warranties are not transferable.

WARNING: Any attempt to open the Dirty Boy for unauthorized service will void the warranty. There are temper proof bolts on the amp to prevent access for your safety.

Register your product at: mojaveampworks.com. Mailing address:

Mojave Ampworks
PO Box 1089
Apple Valley, CA 92307

Do not discard your factory shipping box, you may need it to return your amp for service if necessary. Mojave Ampworks does not accept amplifiers returned unless shipped in a factory box. If you discard your original box you will have to purchase a new one in order to return your amp for service.

As noted above, your amplifier was shipped with ten (10) boxes that contained the required tubes to properly operate the amplifier. The boxes contain the brand and ratings labels. Please keep these boxes for reference or write down the numbers for future use.

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SECTION 7: Frequently Asked Questions.

1. Can I change the power tubes to another type or brand?

No, if the power tubes are changed they will need to be re biased. Biasing procedure for the Dirty Boy is unique since this amp is run on a variac and there is a user adjustable bias control on the front. We STRONGLY recommend you contact us for any tube changes if so needed. The Dirty Boy cannot use any other type of tube other then the EL34 model tube.

2. Can yield change the preamp tubes?

Yes, you can change the preamp tubes without any difficulty. We strongly recommend AMERICAN made tubes.

3. Can I change the 5U4 Rectifier tubes?

Yes, you can change the 5U4 Rectifier tubes. We strongly recommend AMERICAN made tubes.

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SECTION 8: Quick Start Amp Settings:

Clean Tone:

- Variac 82%
- Boost off
- Guitar Volume 30%
- Treble 80%
- Midrange 57.5%
- Bass 67.5%
- Presence 85%
- Feedback 50%
- Bias 65%
- Telecaster

Dirty Rhythm:

- Variac 90%
- Boost Off
- Guitar Volume 85%
- Treble 100%
- Midrange 97.5%
- Bass12.5%
- Presence 66%
- Feedback 36%
- Bias 66%
- Les Paul

Heavy Lead tone:

- Variac 55%
- Boost On
- Boost Gain 75%
- Boost Volume: 75%
- Guitar Volume 75%
- Treble: 95%
- Midrange: 95%
- Bass:60%
- Bias: 60%
- Feedback: 60%

Guitar: Carvin SH 550 Semi Hollow Body, Low Output pickups, stock

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Tone Type: Hair Pick (Chewing On Crayons)

- Variac setting: 70%
- Boost Gain:87.5%
- Deep On/Off: On
- Boost On/Off: On
- Boost Volume: 94%
- Guitar Volume:100%
- Treble:75%
- Midrange: 35%
- Bass 0%
- Presence 50%
- Feedback 77.5%
- Bias: 15%

Guitar: Les Paul, Stock Pickups
Tone Type: Hair Pick, My Generation

- Variac setting: 79%
- Boost Gain: 100%
- Deep On/Off: On
- Boost On/Off: On
- Boost Volume: 40%- 50%
- Guitar Volume: 100%
- Treble: 100%
- Midrange: 100%
- Bass: 20-25%
- Presence: 30%
- Feedback: 60%
- Bias: 85%

Guitar: Gibson -ES355
Tone Type: Classic Blues Saraceno Tone with ES-335

- Variac setting: 80%
- Boost Gain:100%
- Deep On/Off: On
- Boost Volume: 100%
- Boost On/Off: On
- Guitar Volume: 85%
- Treble: 75%
- Midrange: 50%
- Bass: 0%
- Presence: 55%
- Feedback 50%
- Bias: 95%

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Guitar: Mahogany Strat with Floyd Rose Bridge 7 Tom Holmes 455 Bridge Pick Up
Tone Type: VHII Beautiful Girls

- Variac setting: 74%
- Boost Gain: 65%
- Deep On/Off: Off
- Boost Volume: 100%
- Boost On/Off: On
- Guitar Volume: 100%
- Treble: 74%
- Midrange: 100%
- Bass: 20%
- Presence: 75%
- Feedback: Min
- Bias: 64%

Guitar: Carvin SH550 Semi Hollow Stock Pickups
Tone Type: Sound Clip Dirty Boy Dirty Rhythm Sound

- Variac setting: 90%
- Boost Gain: 0%
- Deep On/Off: Off
- Boost Volume: 0%
- Boost On/Off: Off
- Guitar Volume: 85%
- Treble: 100%
- Midrange: 97.5%
- Bass: 12.5%
- Presence: 66%
- Feedback: 36%
- Bias: 66%

Guitar: Les Paul Stock 59 Historic Custom Shop Stock Burst Buckers Pick Ups
Tone Type: A bunch of B.S. (Blues Saraceno) Tone

- Variac setting: 80%
- Boost Gain: 95%
- Deep On/Off: On
- Boost Volume: 50%-75%
- Boost On/Off: On
- Guitar Volume:100%
- Treble: 100%
- Midrange: 100%
- Bass: 20%
- Presence: 45%
- Feedback: 75%
- Bias: 75%

Dirty Boy User Manual

Guitar: Carvin SH 550 Semi Hollow Stock Pickups (Single Coil tap selected) SYTF
Tone Type: Clean with good articulation, slightly bright but still balanced.

- Variac setting:100%
- Boost Gain: 0%
- Deep On/Off: Off
- Boost Volume: 0%
- Guitar Volume: 20%
- Treble: 100%
- Midrange: 35%
- Bass 40%
- Presence: 95%
- Feedback: Maximum
- Bias: Hot (100%)

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